

Figure 1

METHOD AND SYSTEM FOR TAGGING CONTENT
FOR PREFERRED TRANSPORT
DOCKET NO.: 026215-00003
Kurt A. DOBBINS et al.

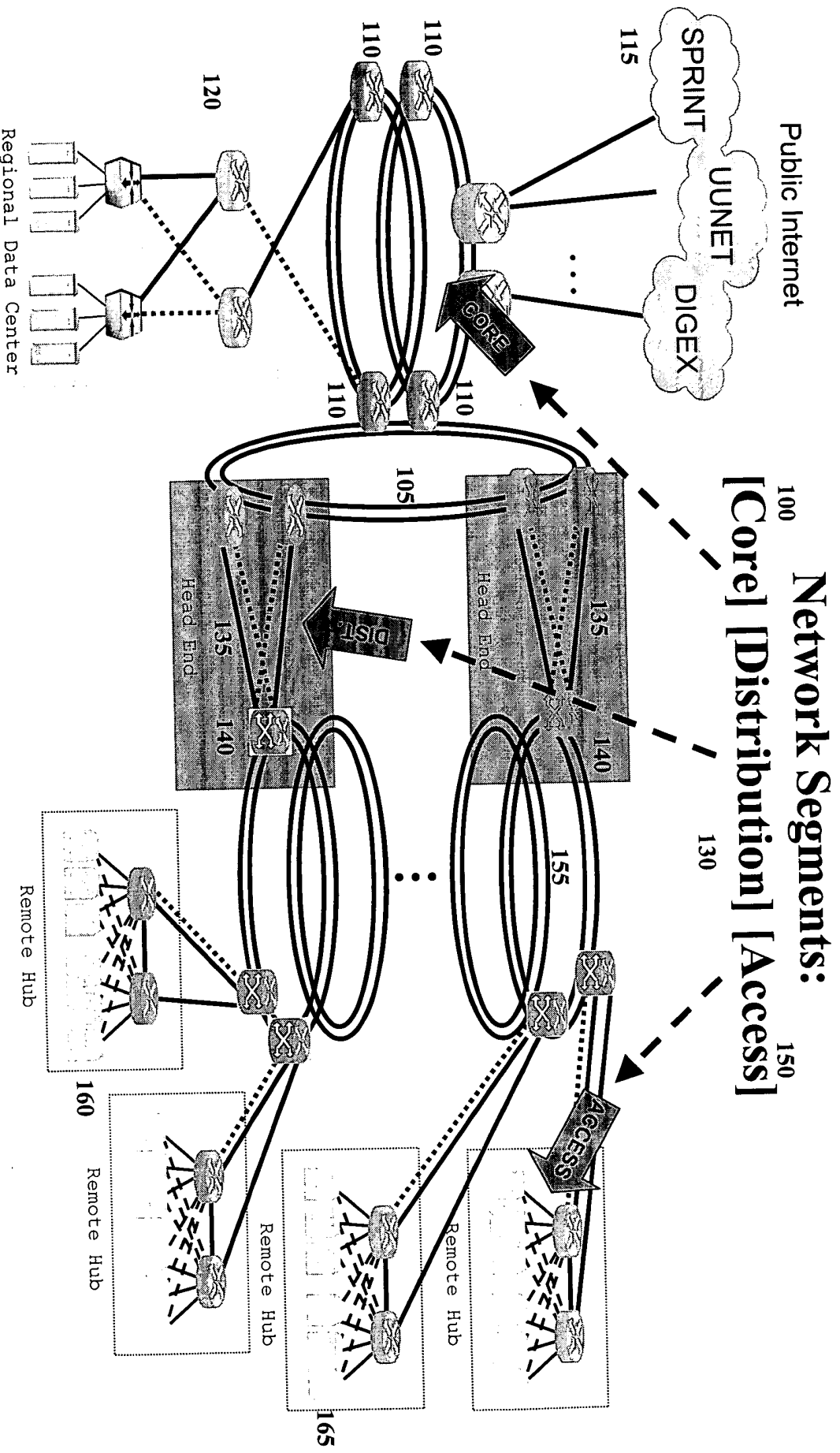


Figure 2

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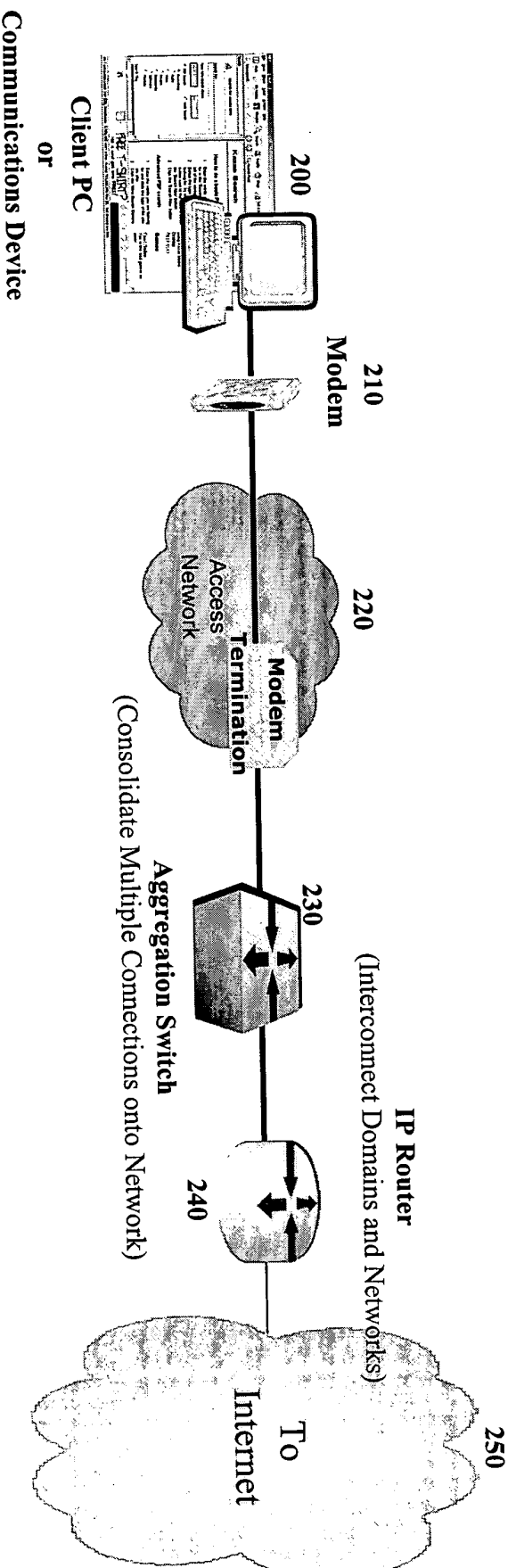


Figure 3

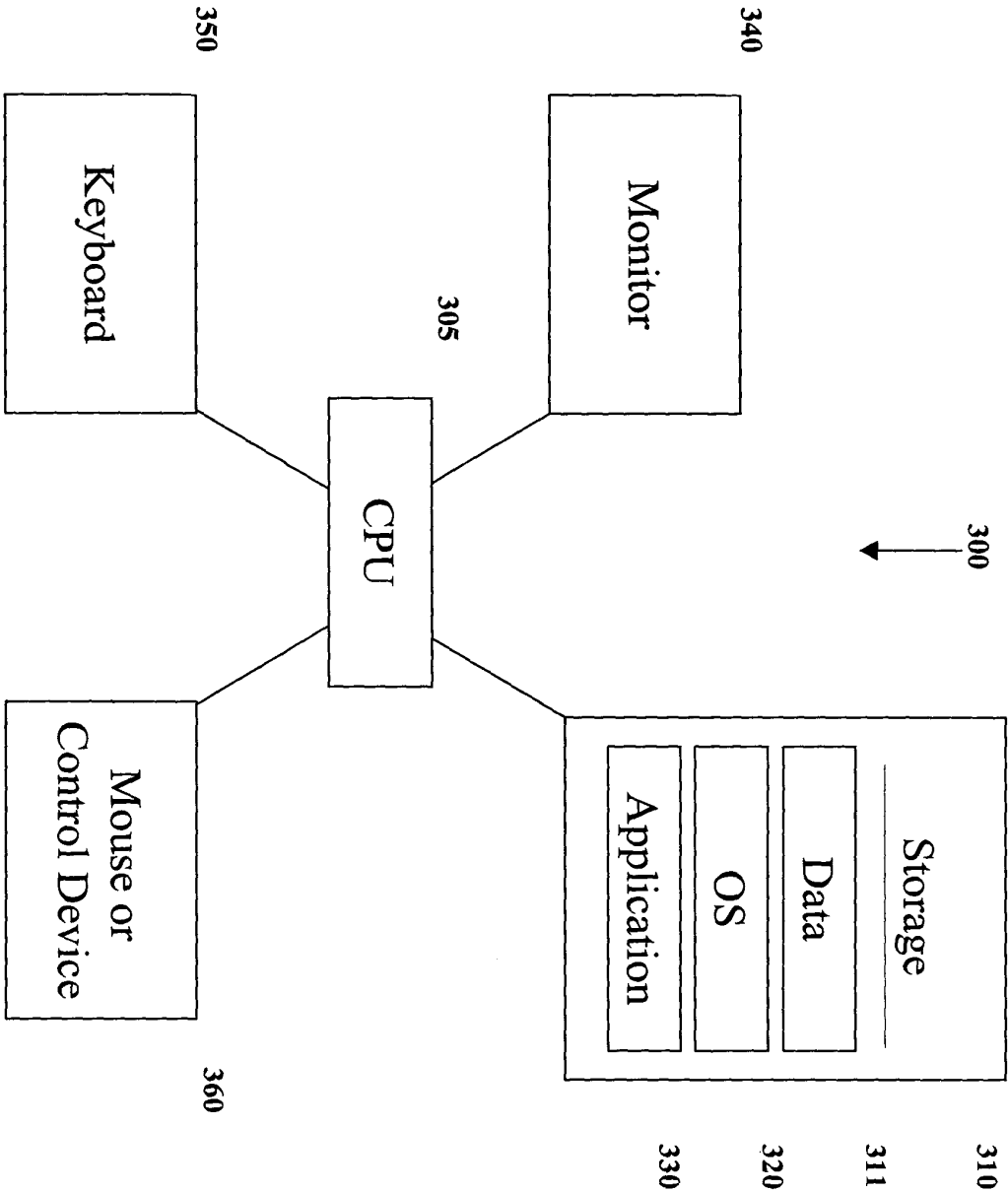


Figure 4

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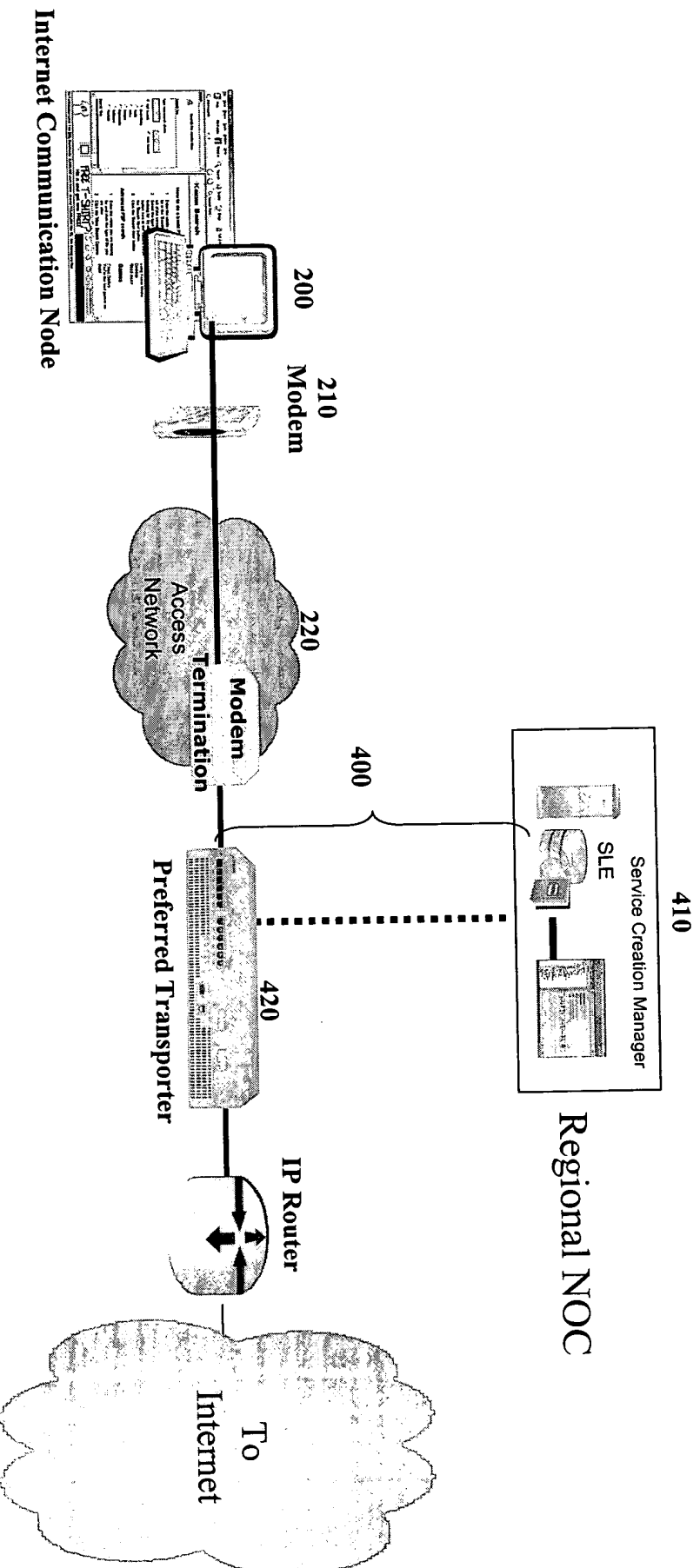


Figure 5

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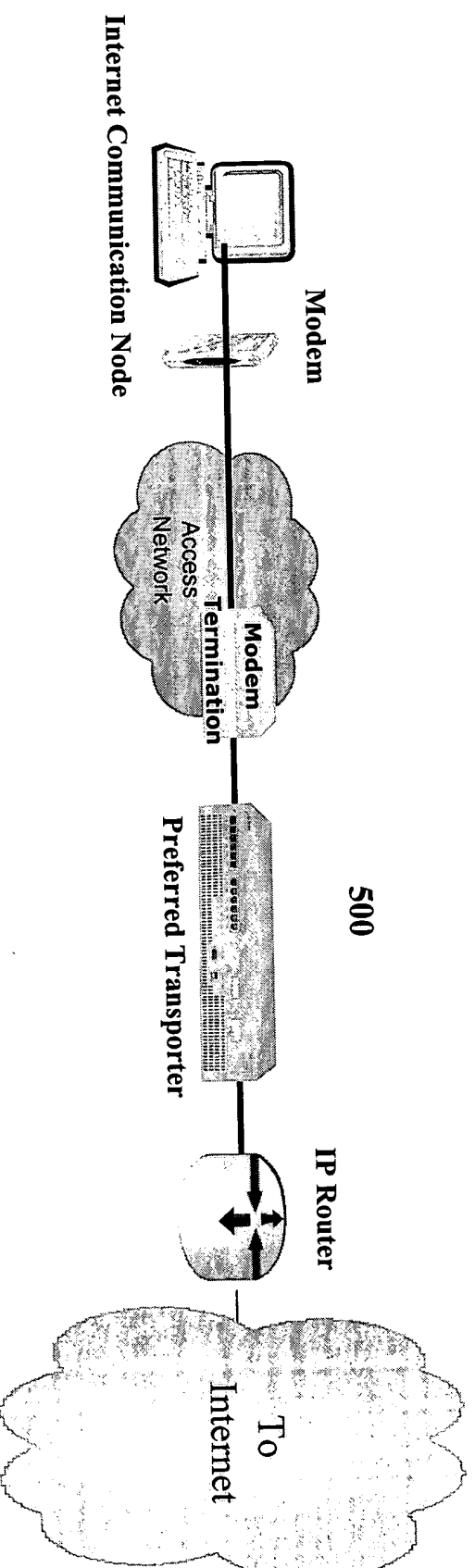


Figure 6

**In Client/Server
networks, nodes
act only as clients**

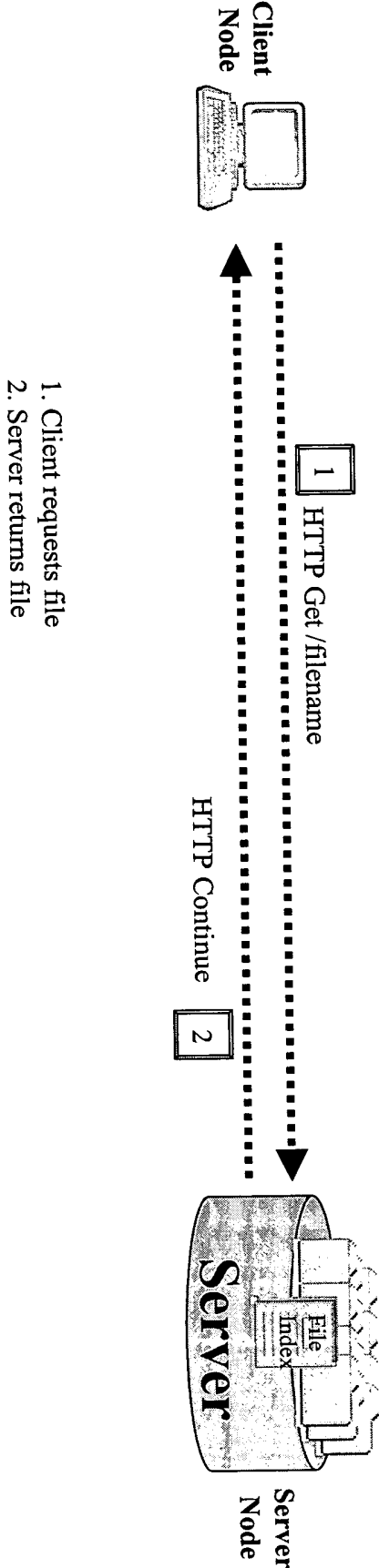


Figure 7

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In Client/Server
networks, nodes
act only as clients

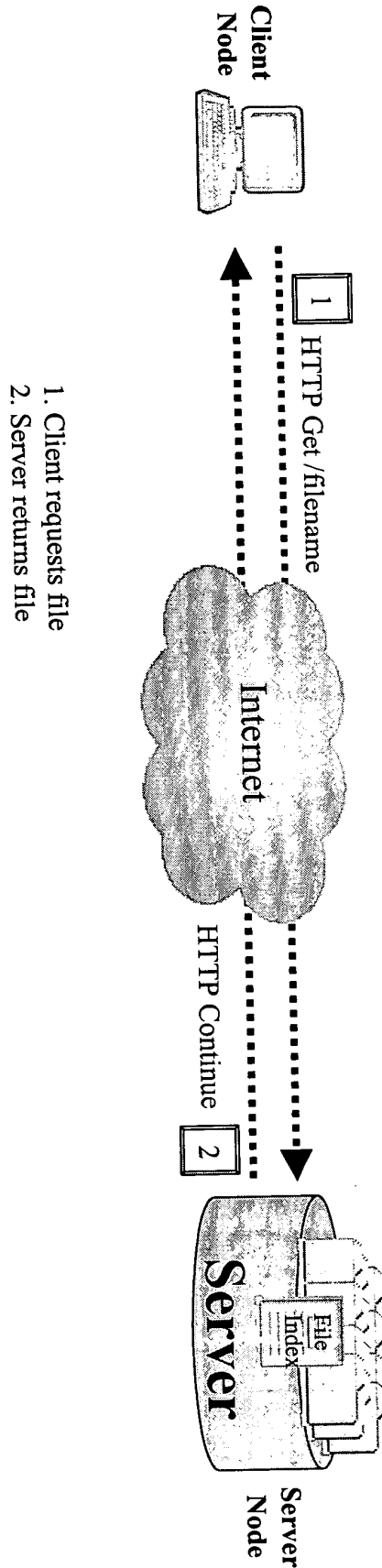


Figure 8

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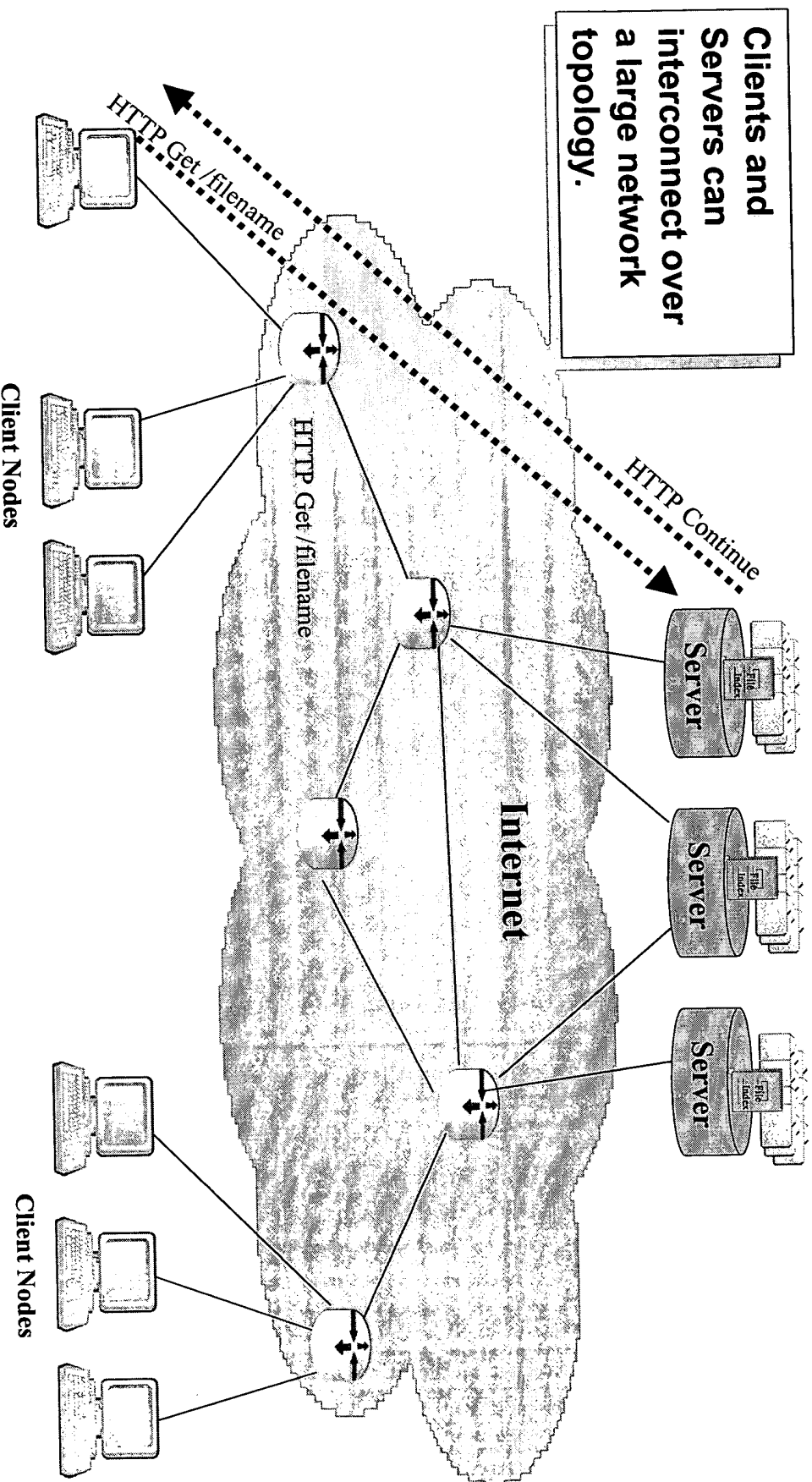


Figure 9

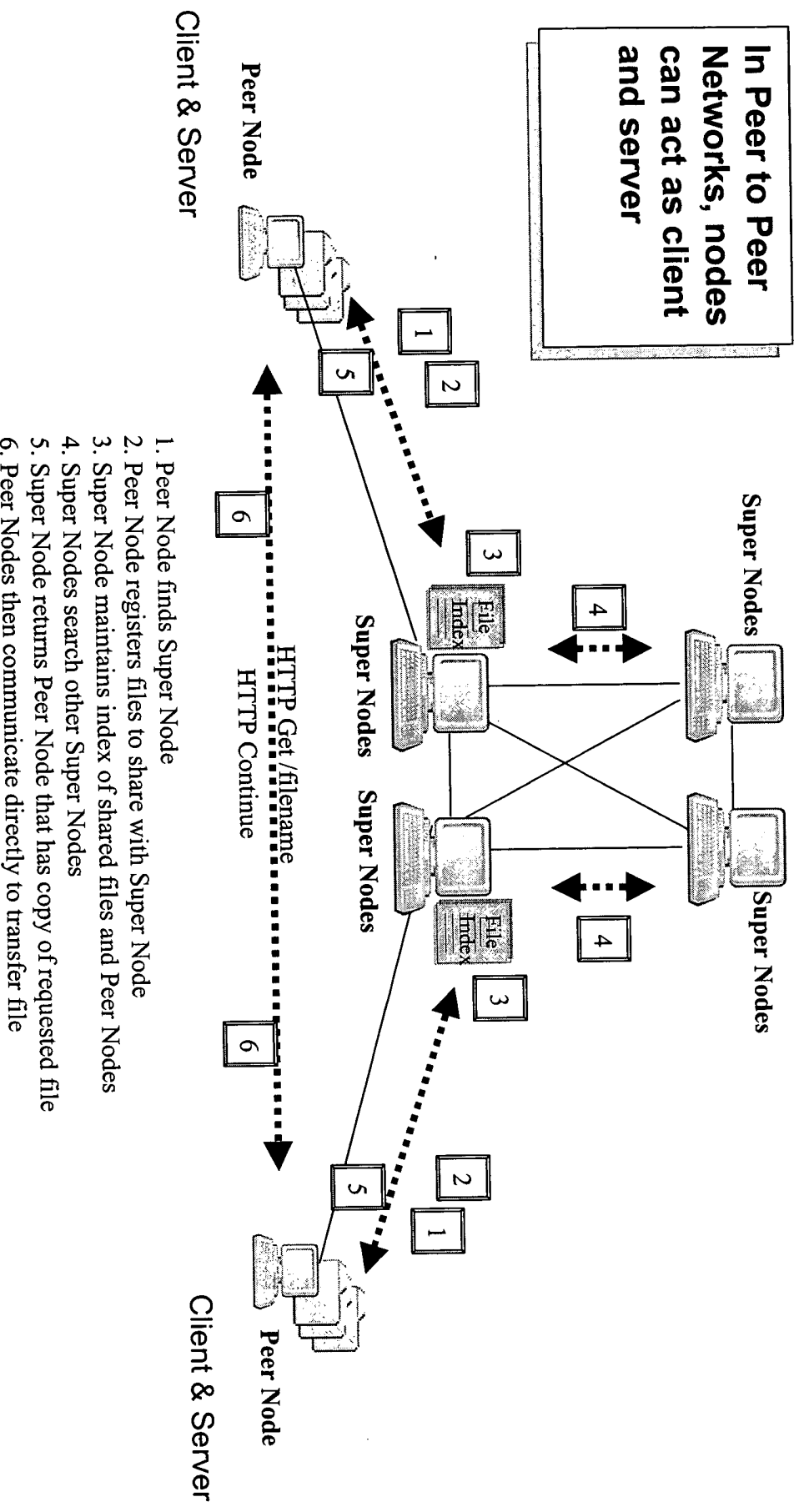
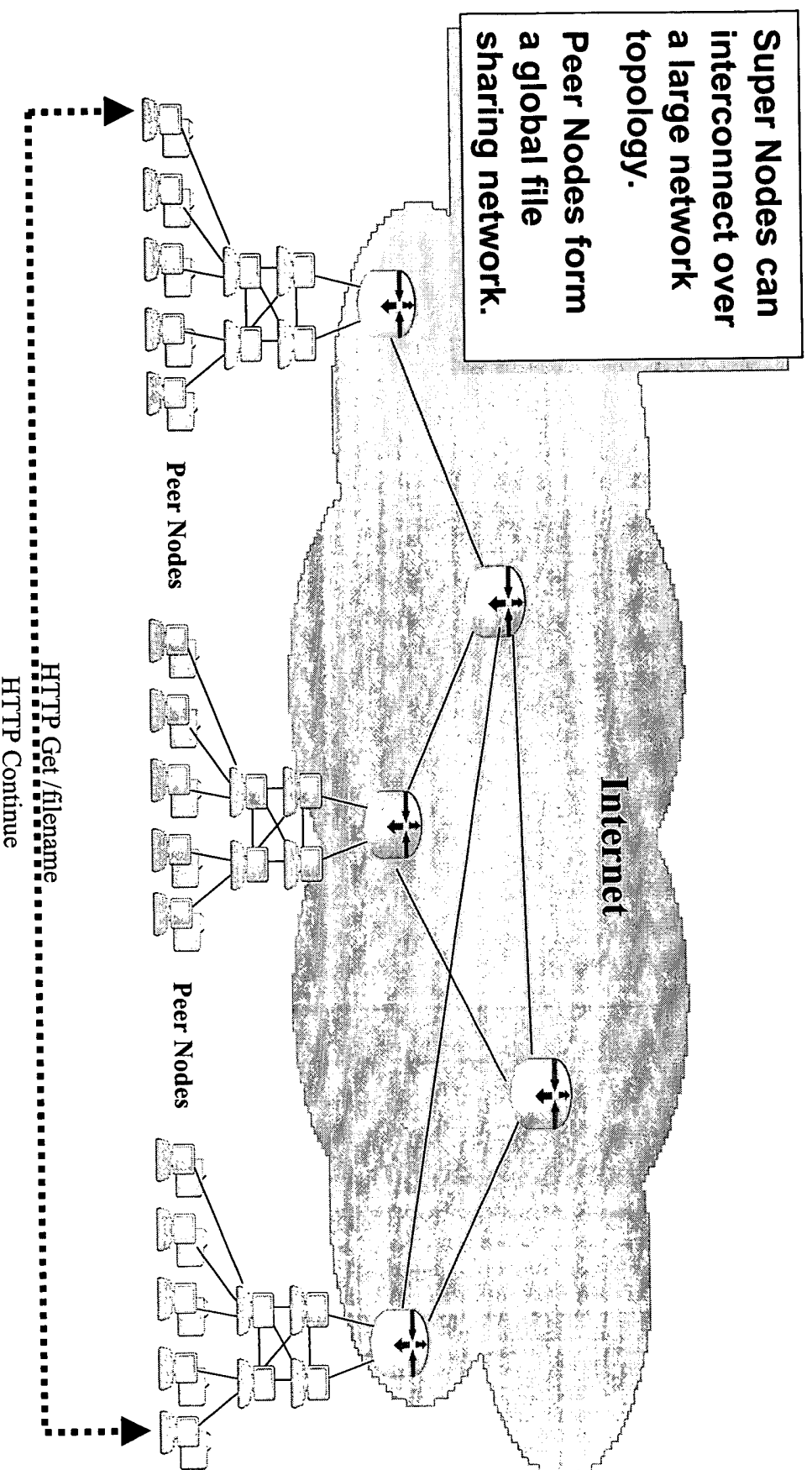
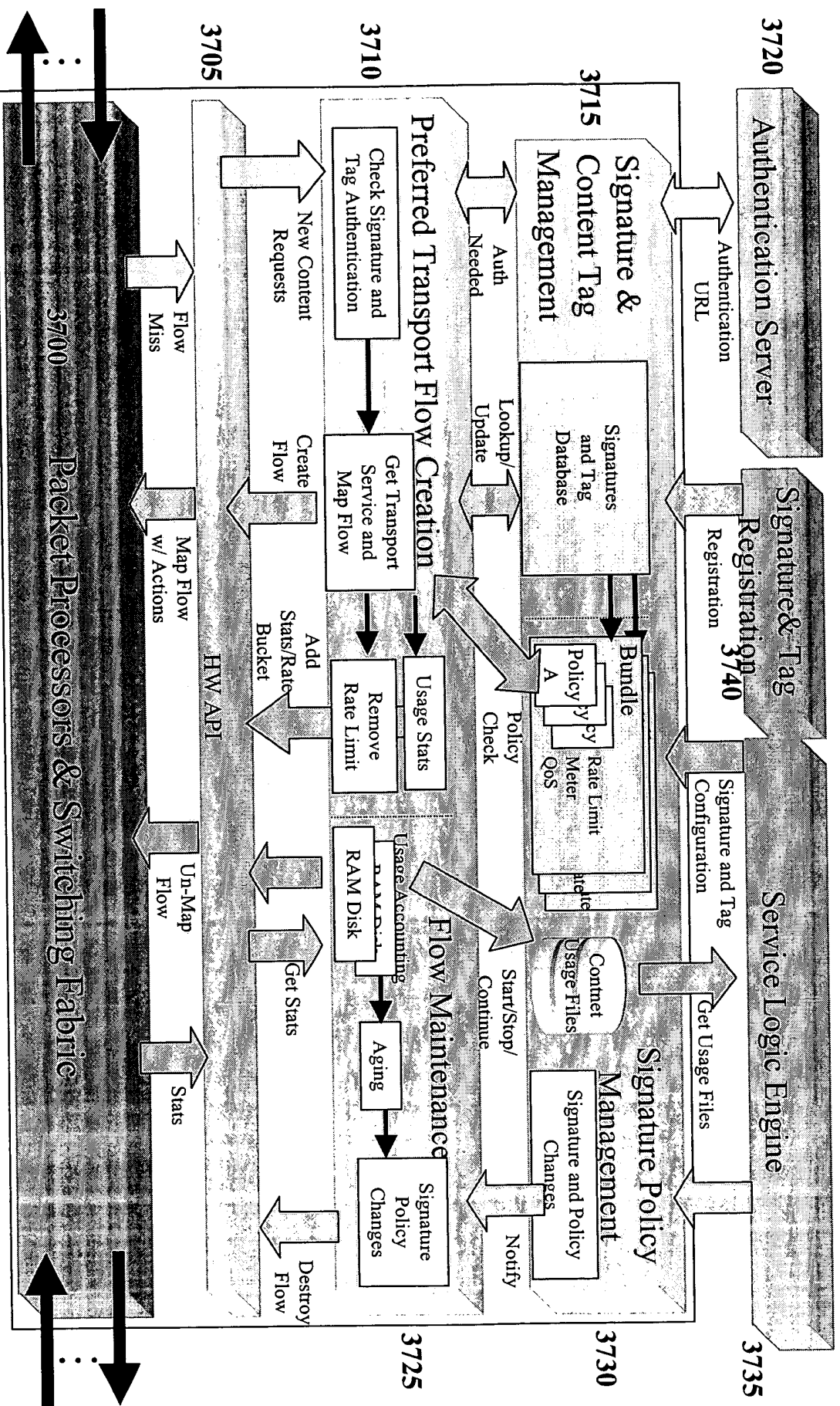


Figure 10

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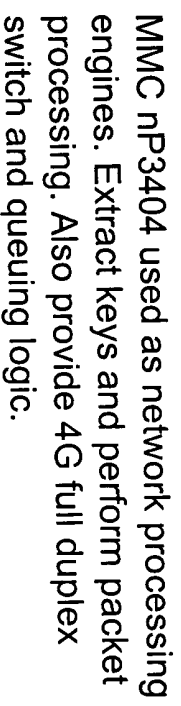


Figure 13

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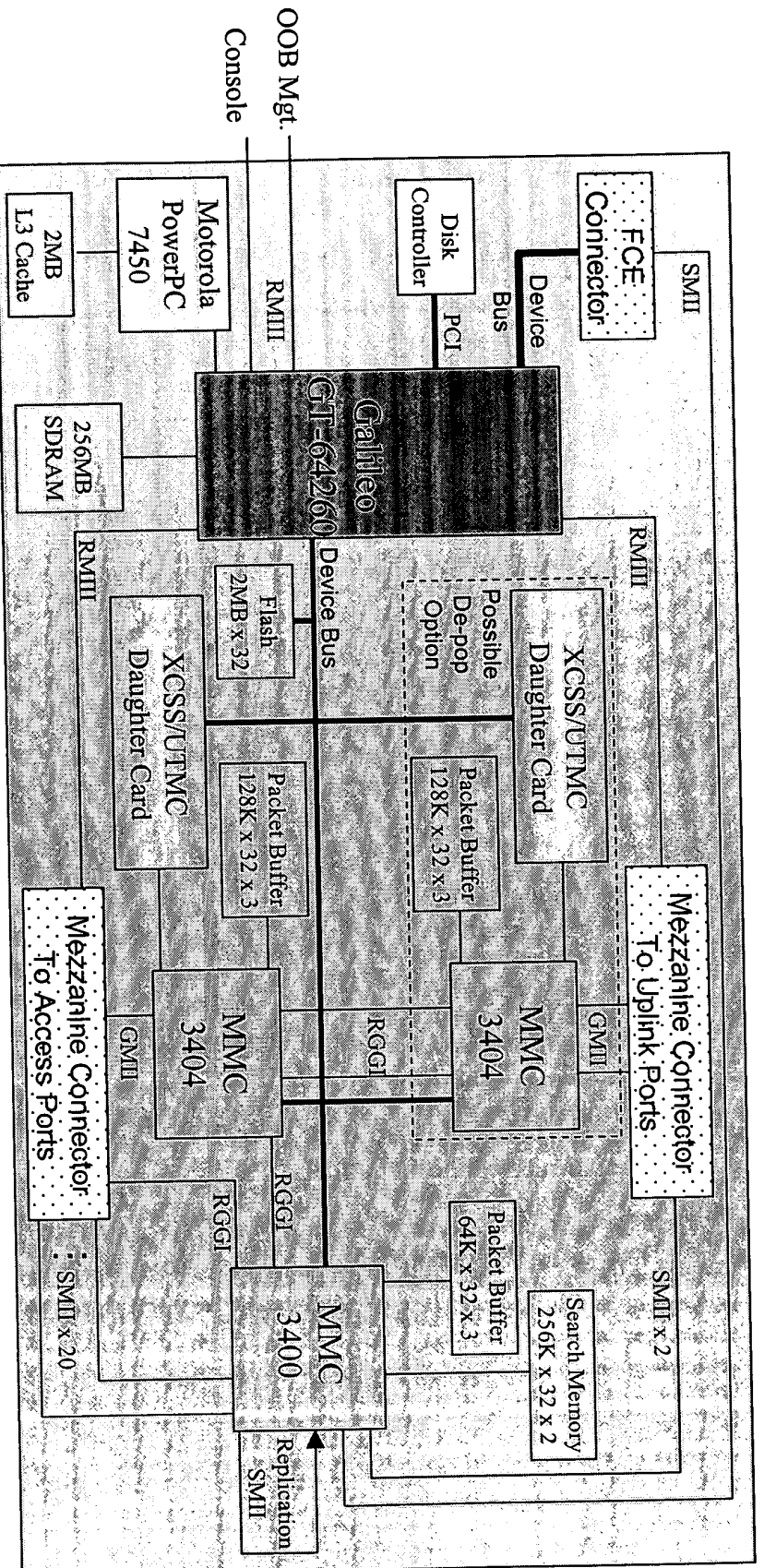


Figure 14

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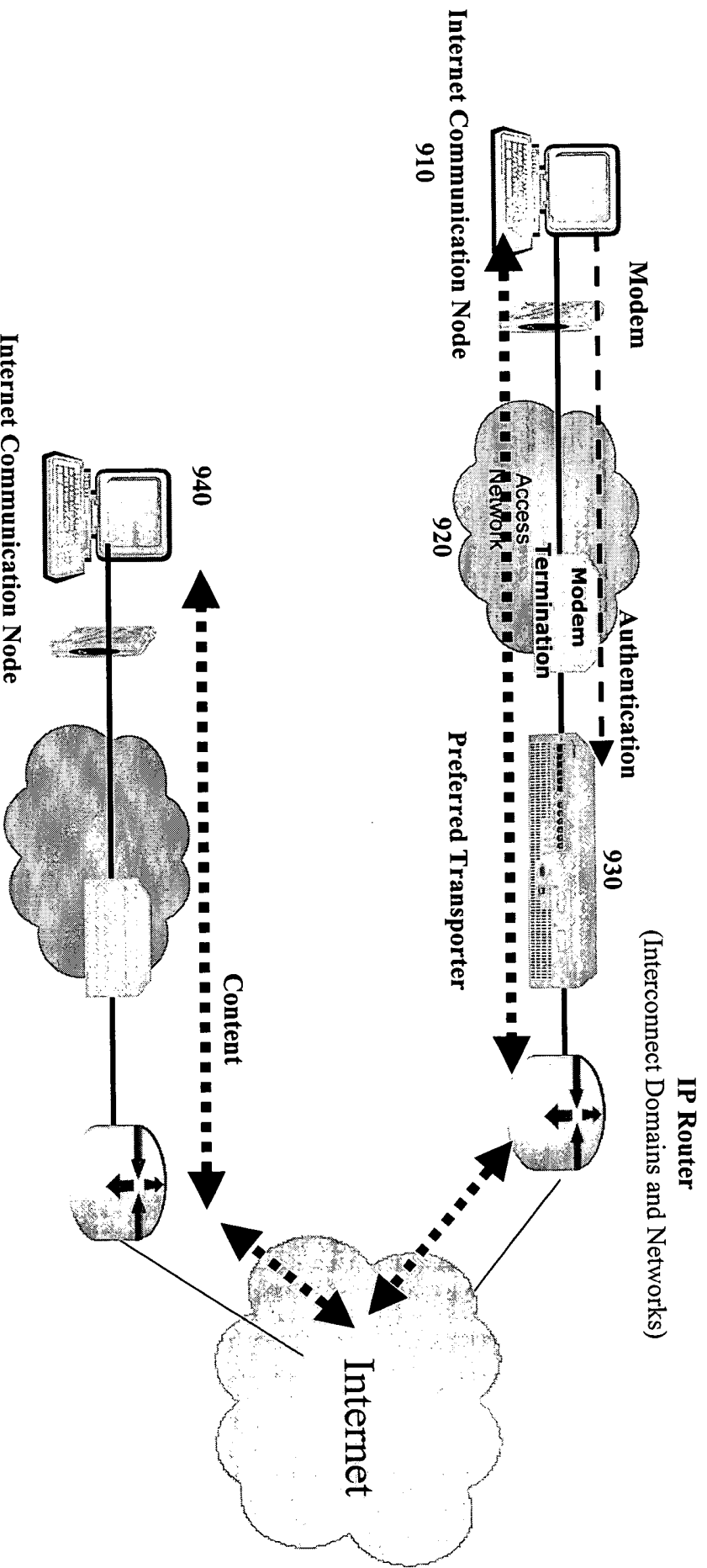


Figure 15

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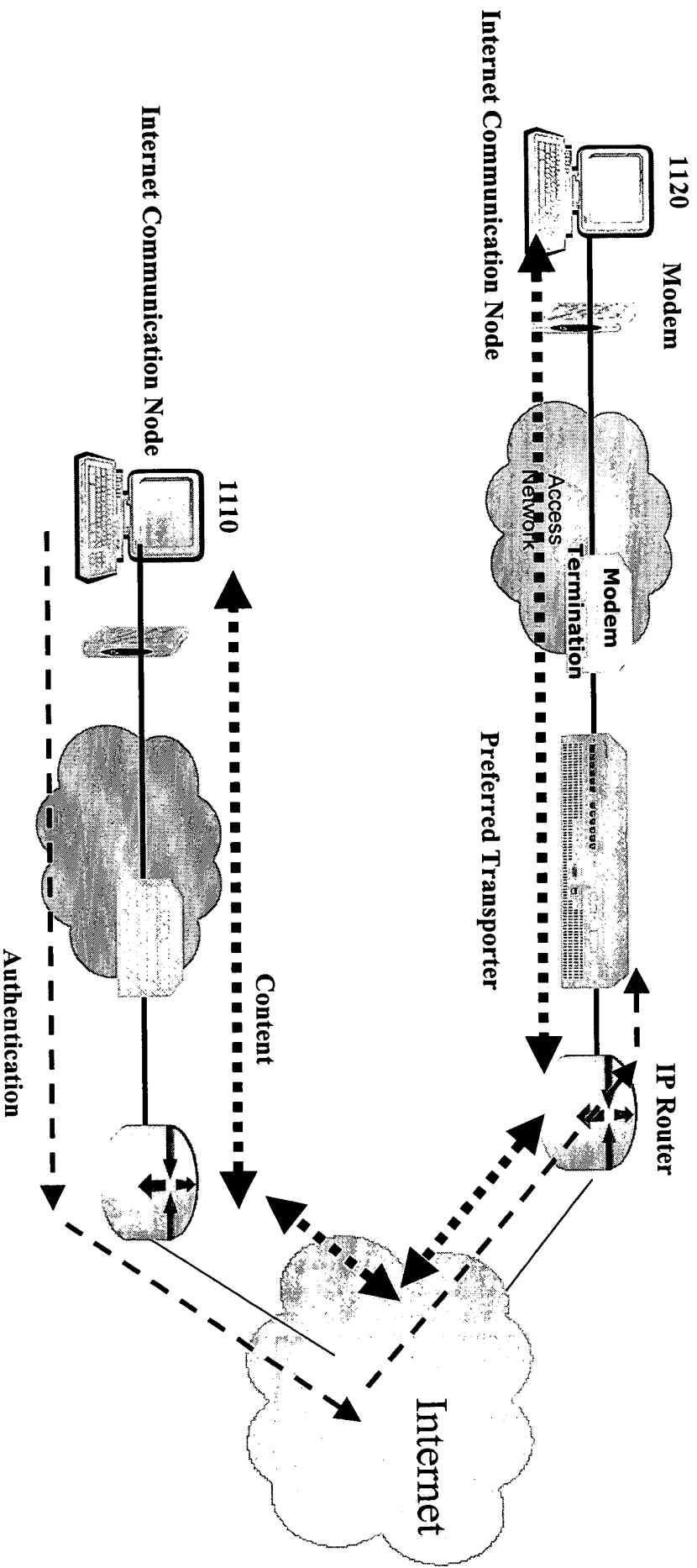
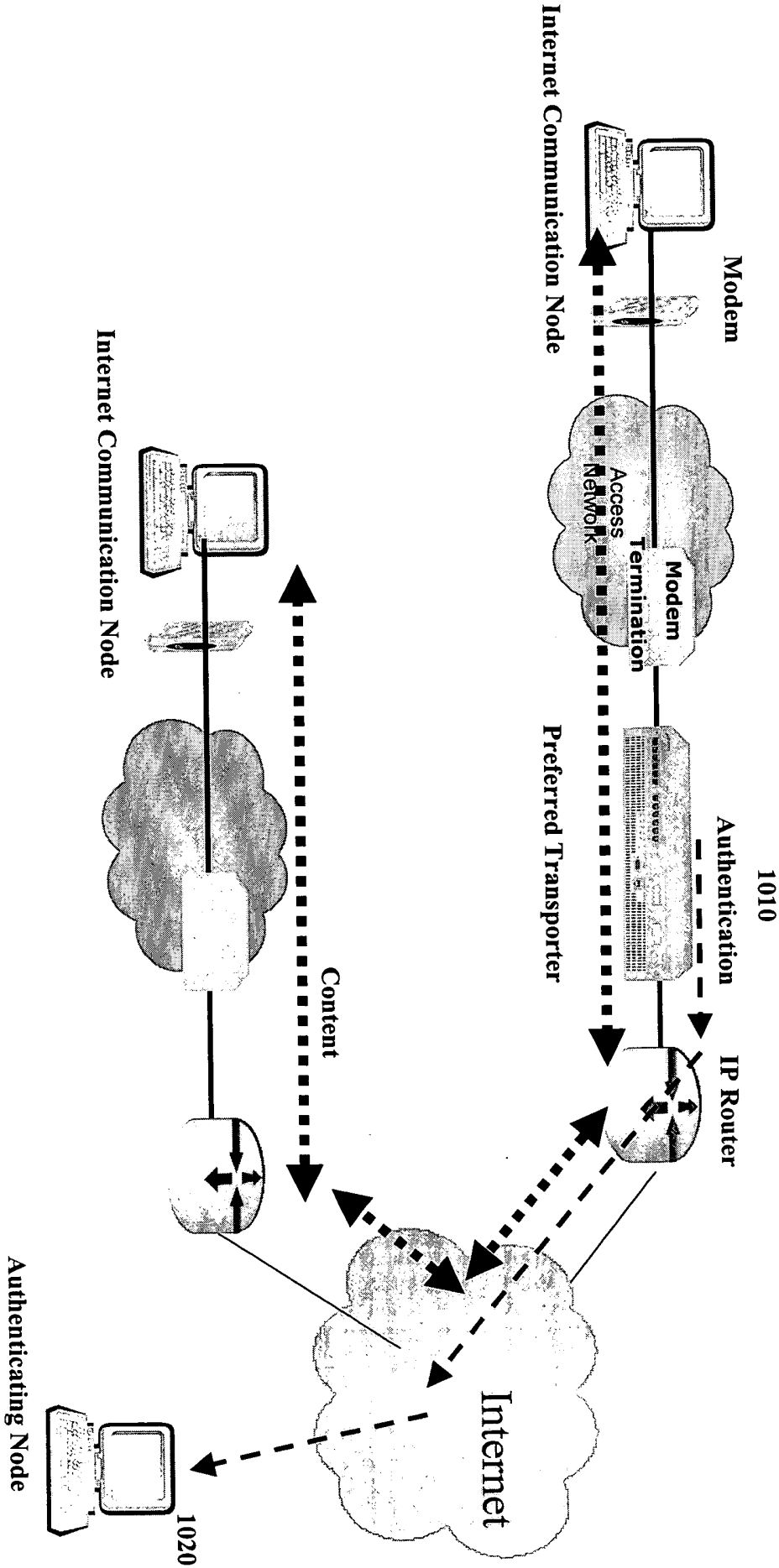


Figure 16

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1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	
Tag Identifier				Tag Length				Tag Version				Reserved				Transport Service				Authenticated Transport				Reserved							
Content Class/Type Encoded OID																															
Content Originator Encoded OID																Content Meta Data Encoded OID															
Authentication URL																															

Figure 18

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Field	Length (bytes)	Description	Comments
Tag ID	4	Well-known tag identifier. Allows different tag types to be supported	Value set to "AUTH"
Tag Length	4	Indicates the remaining length of the tag.	Maximum Length of 128 bytes
Tag Version	4	Version of Tag Structure	Value set to "1.0"
Reserved	4	Reserved for Future Use	Unused
Transport Service	4	Preferred Transport Bit Mask for Transport Service Preference.	1 = No Rate Limit 2 = No Byte Cap 4 = On-Demand BW 8 = BLOCK ACCESS
Authenticated Transport	4	Digital Signature used to authenticate preferred transport	
Reserved	8	Reserved for Future Use	Unused
Content Class/Type	16	OID syntax from Content Class naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Application	16	OID syntax from Application naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Originator	16	OID syntax from Content Originator naming tree.	Encoded using ASN.1 BER {tag/len/value}
Content Meta Data	16	OID syntax from Content Meta Data naming tree.	Encoded using ASN.1 BER {tag/len/value}
Authentication URL	32	URL of authentication server	

Figure 19

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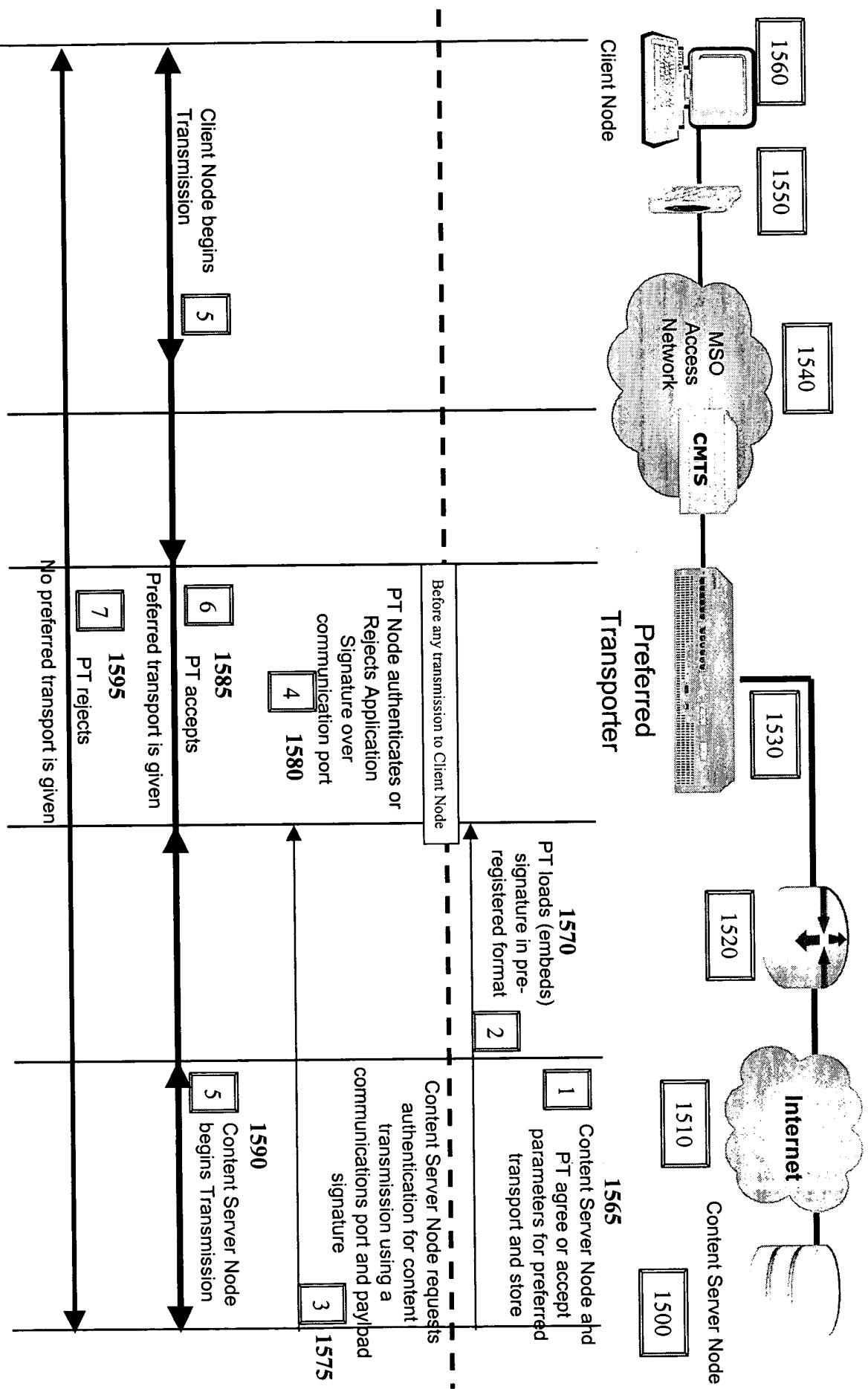


Figure 19a

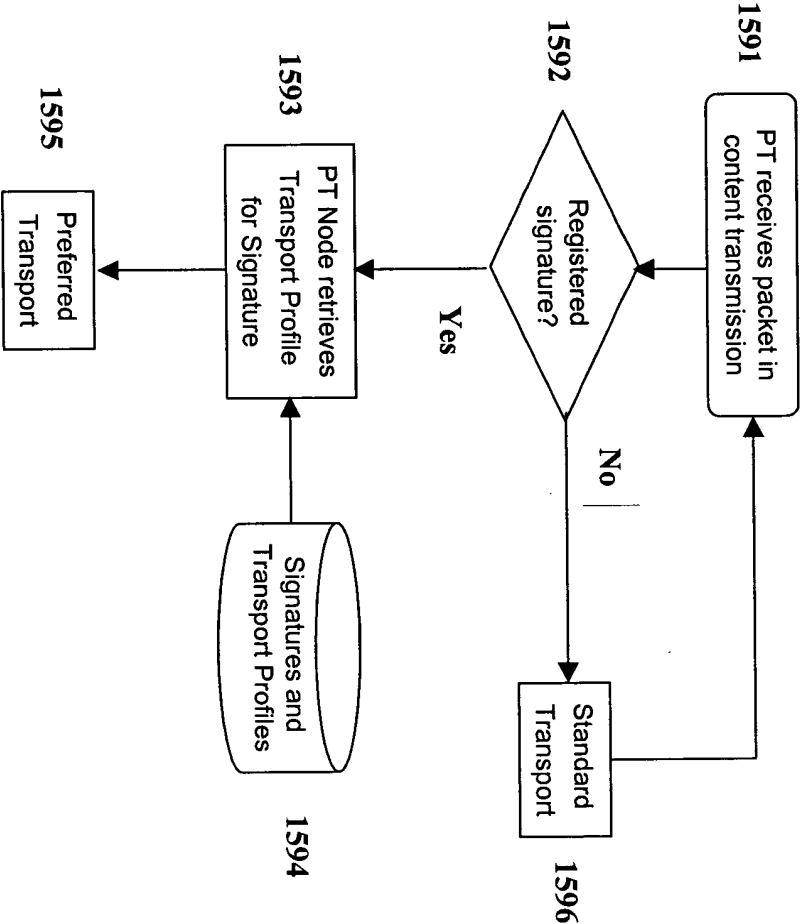


Figure 20

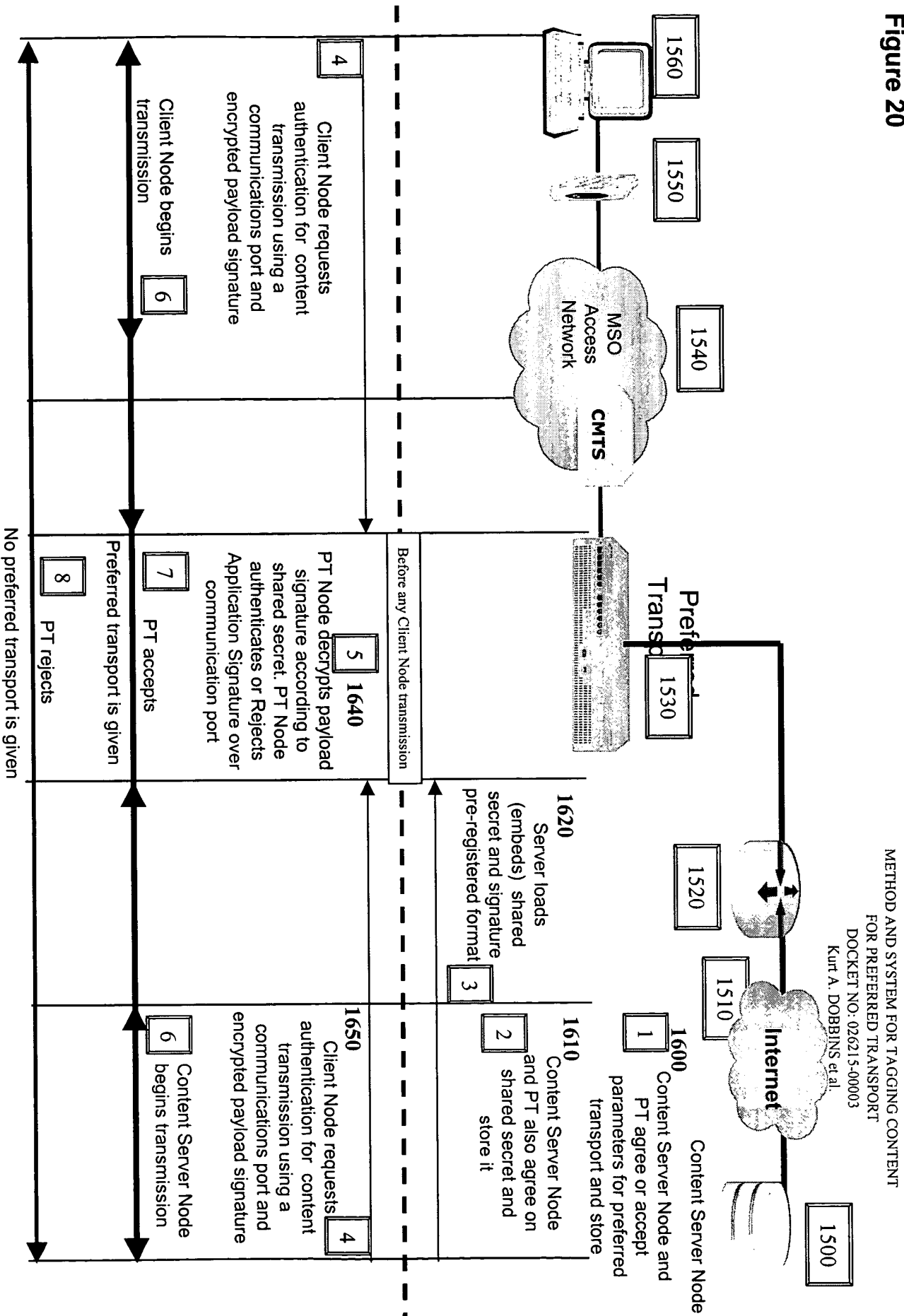


Figure 20a

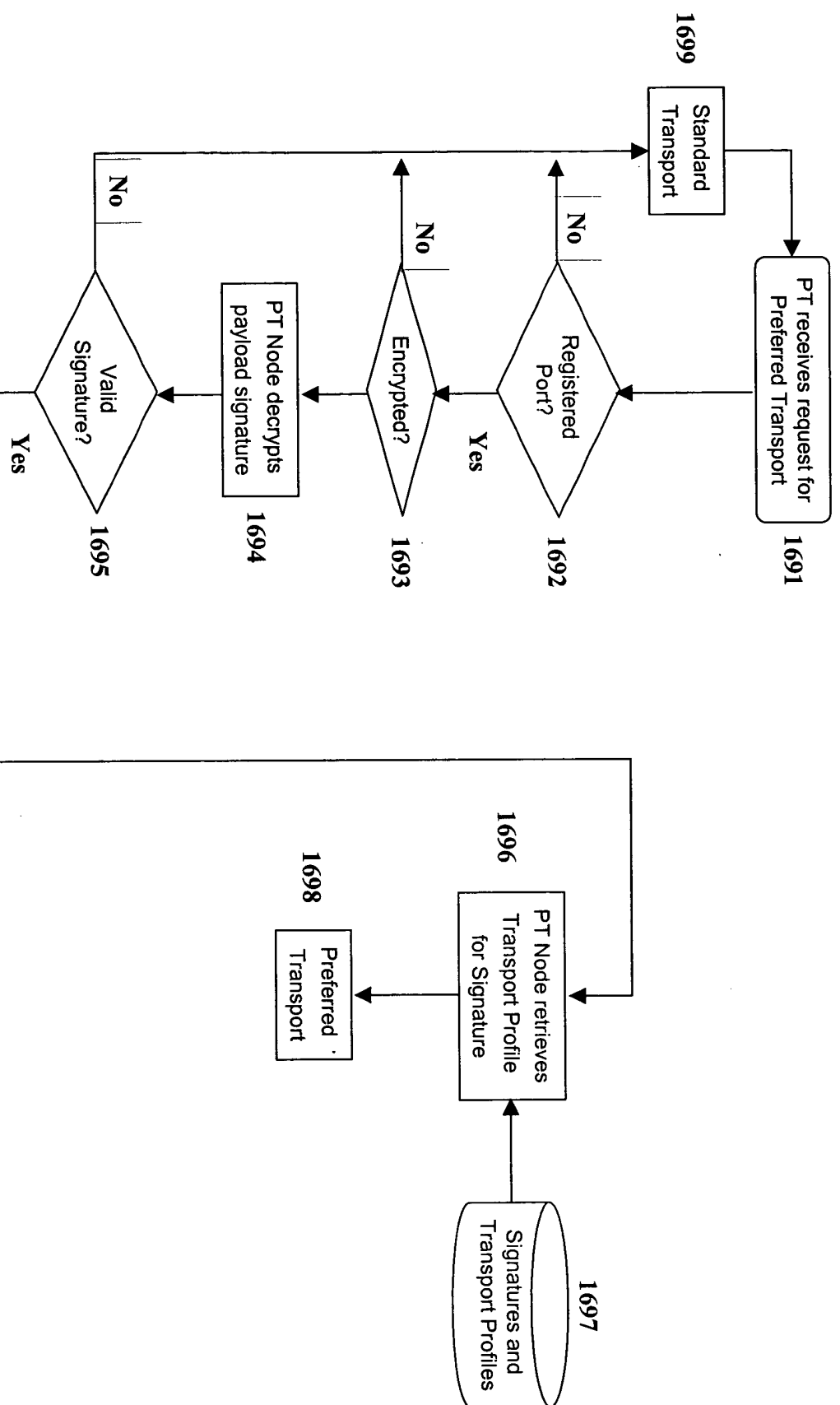


Fig 21

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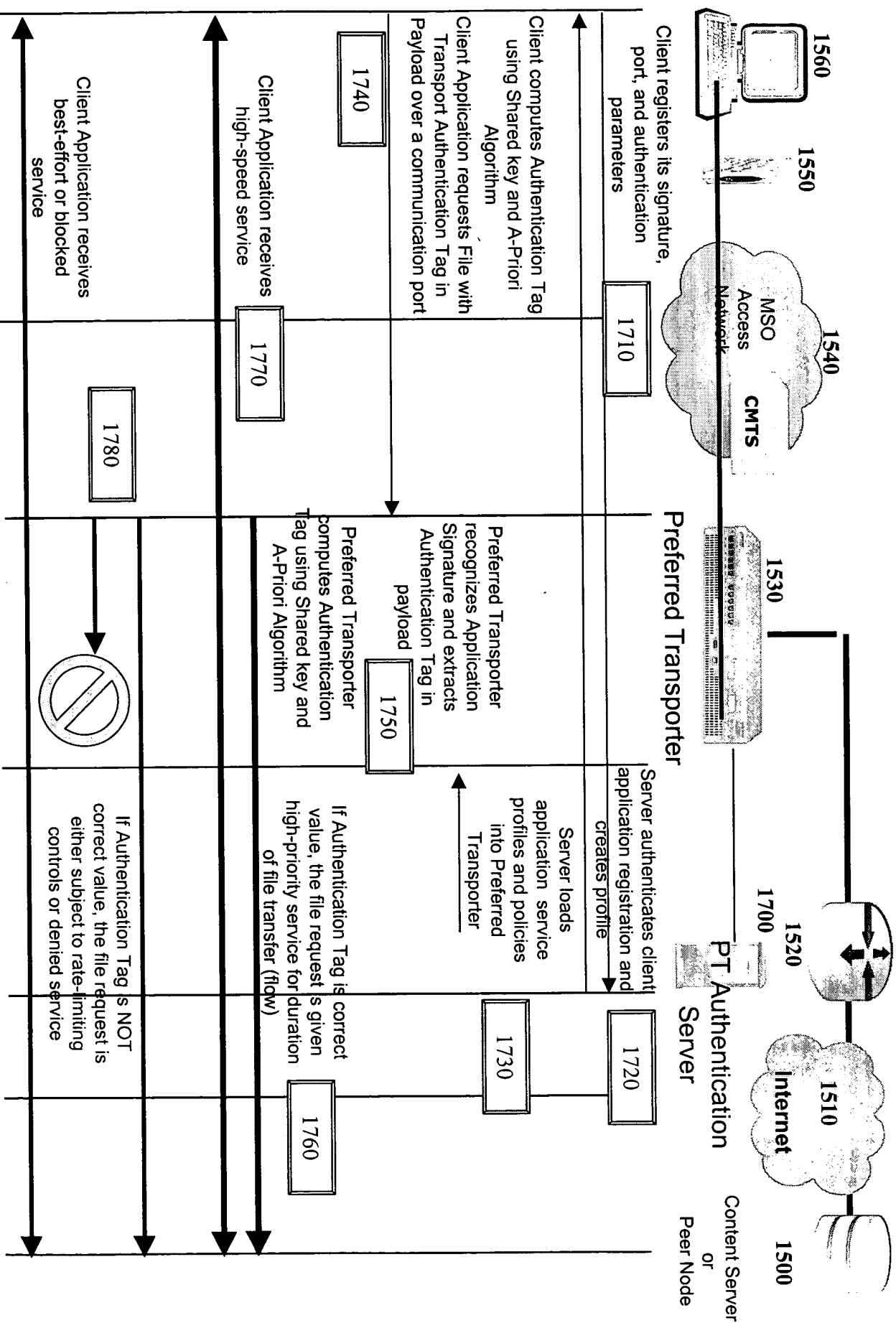


Figure 21a

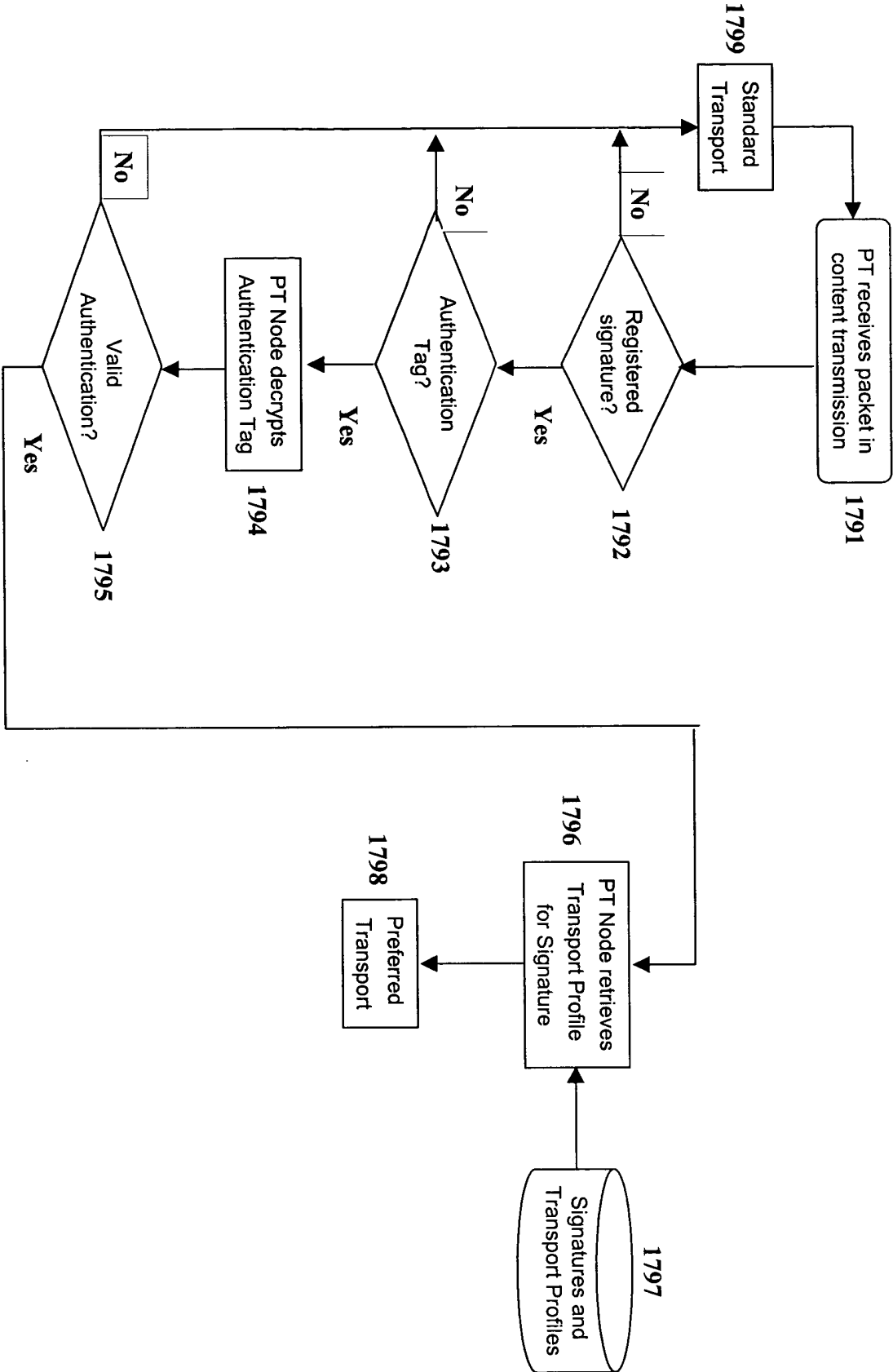


Figure 22

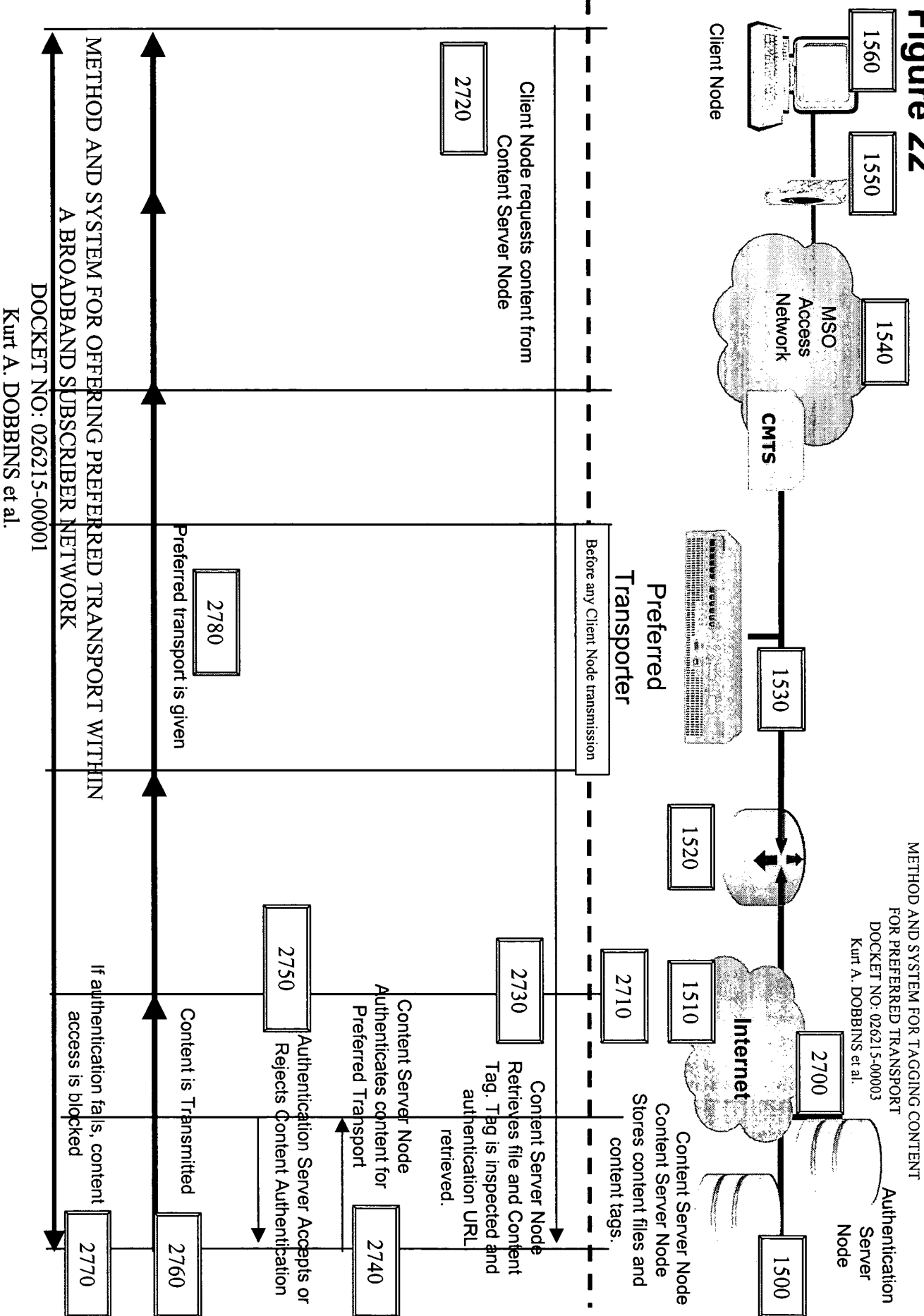


Figure 22a

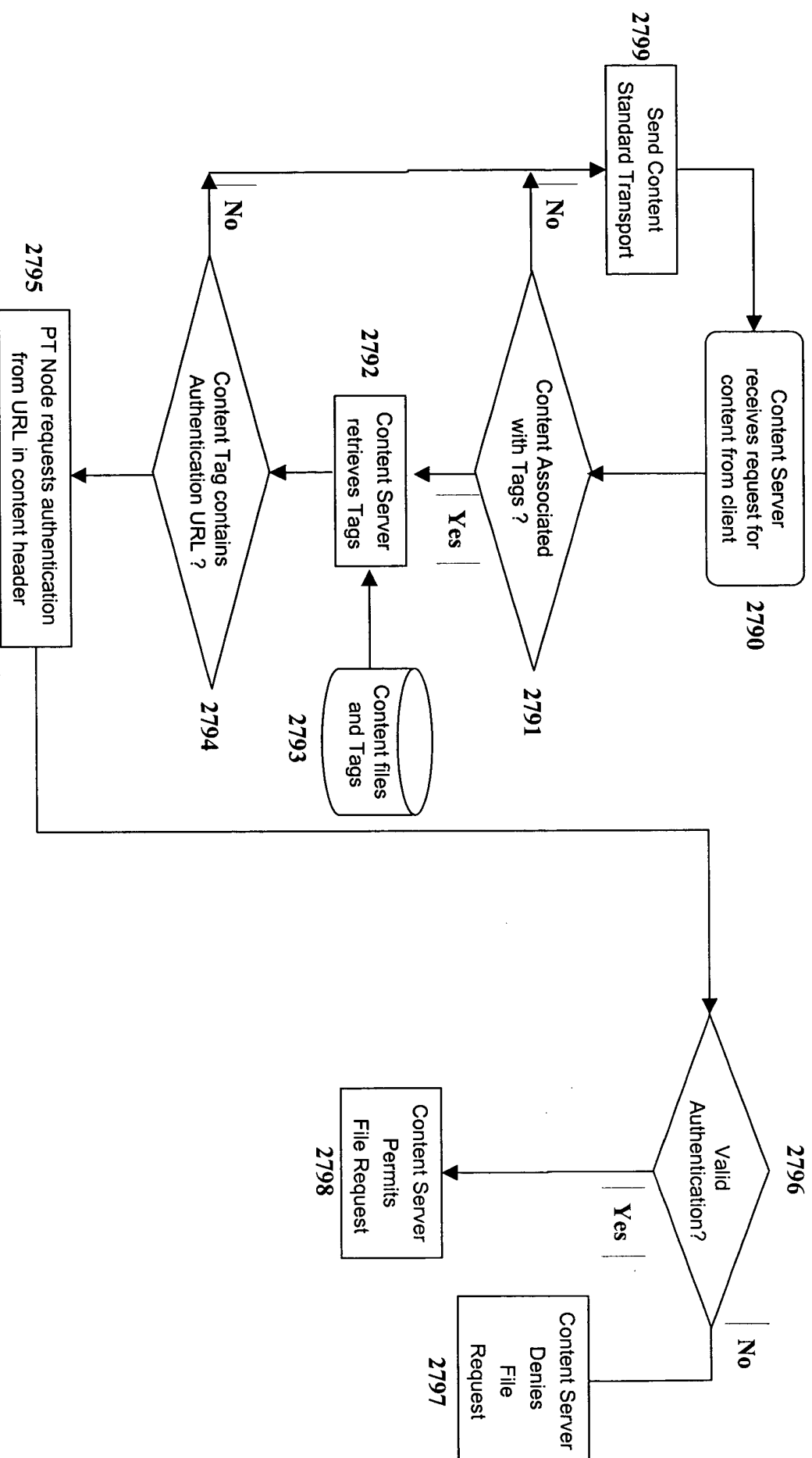


Figure 23

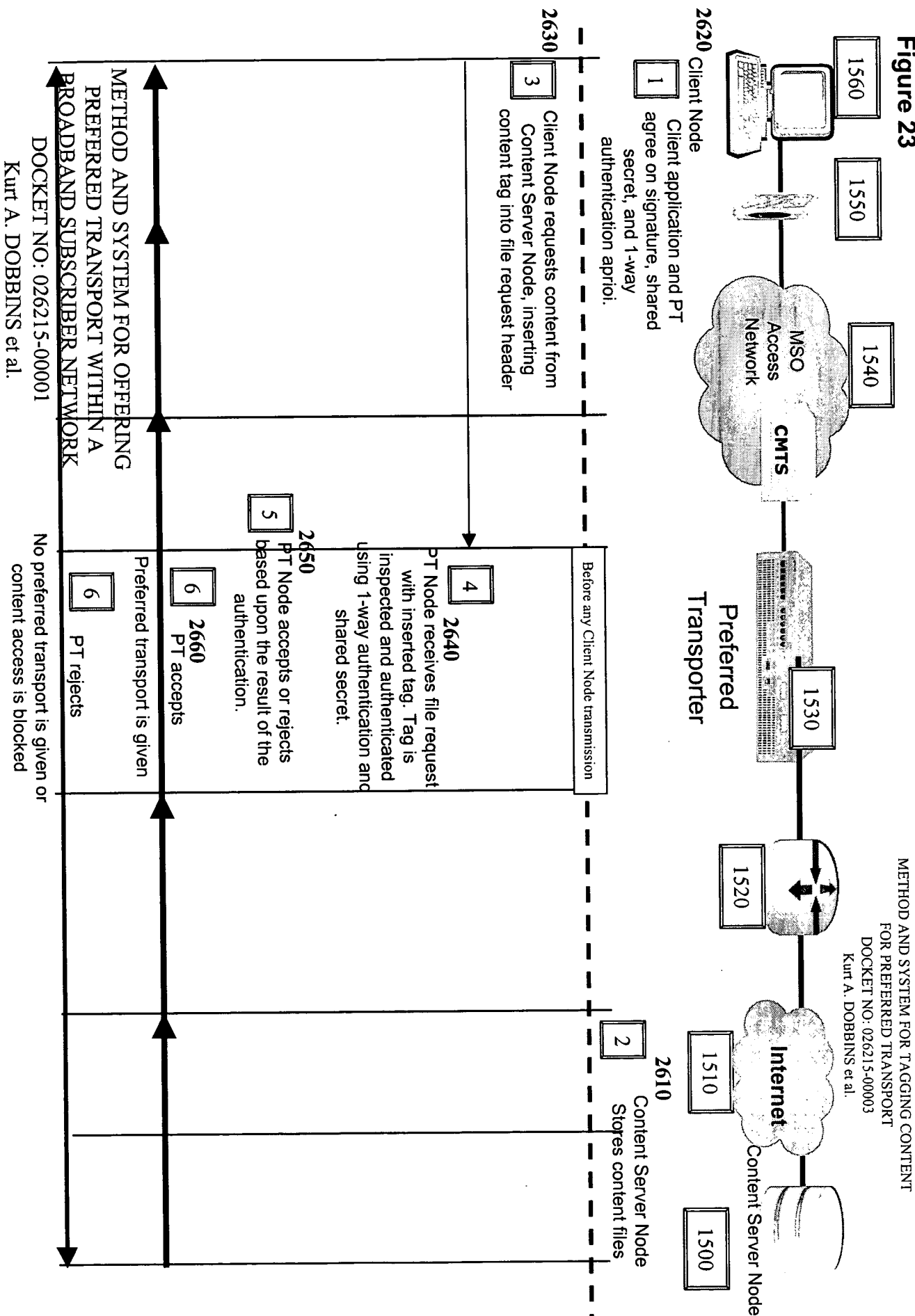


Figure 23a

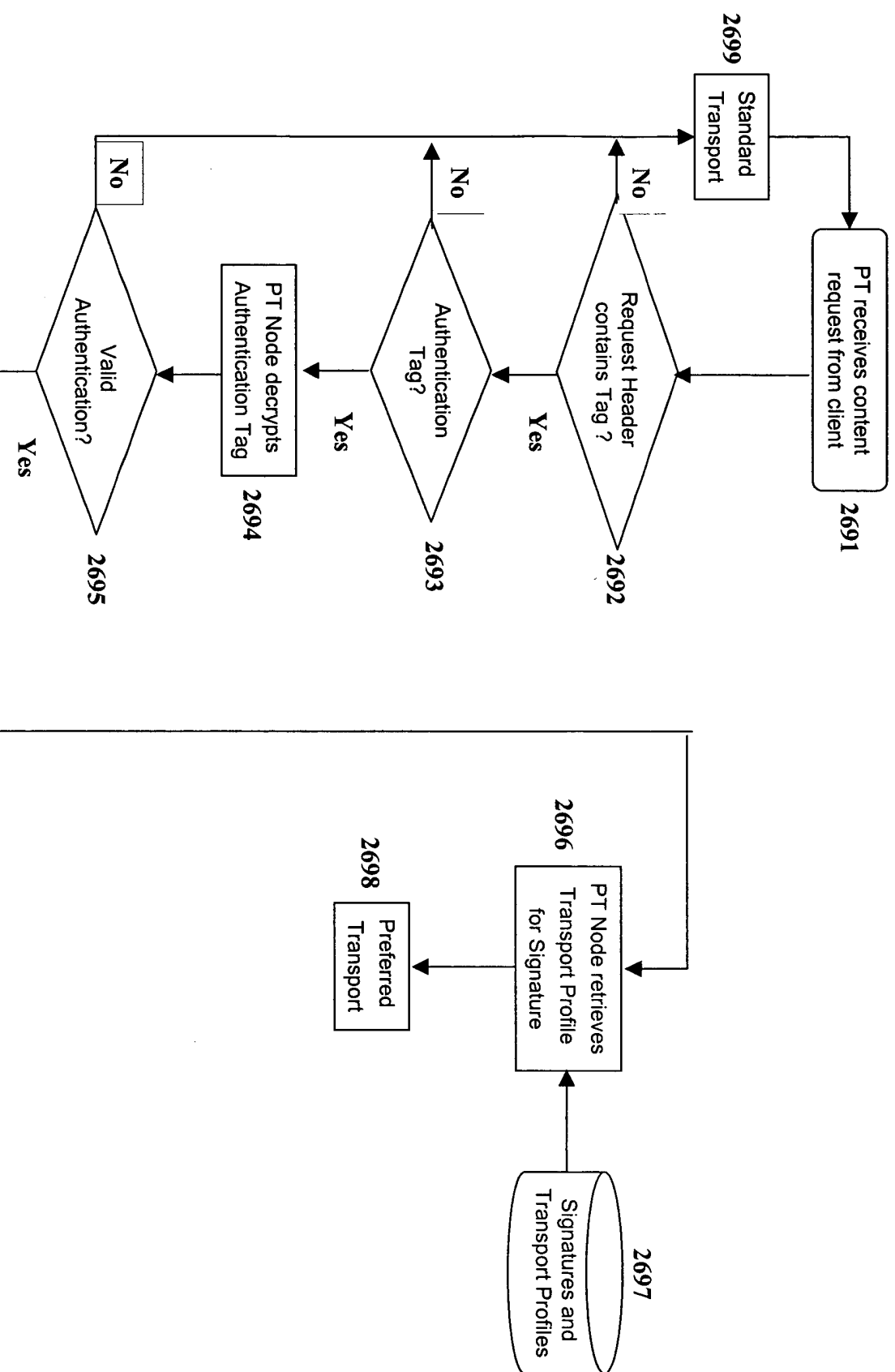
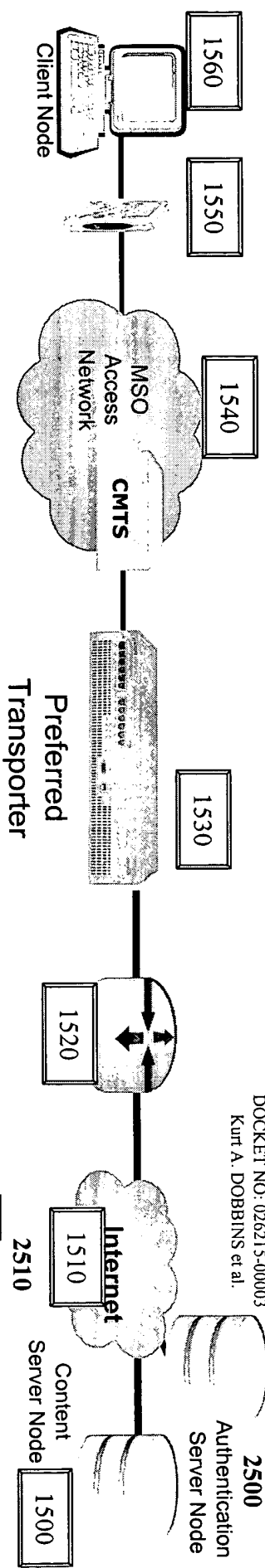


Figure 24



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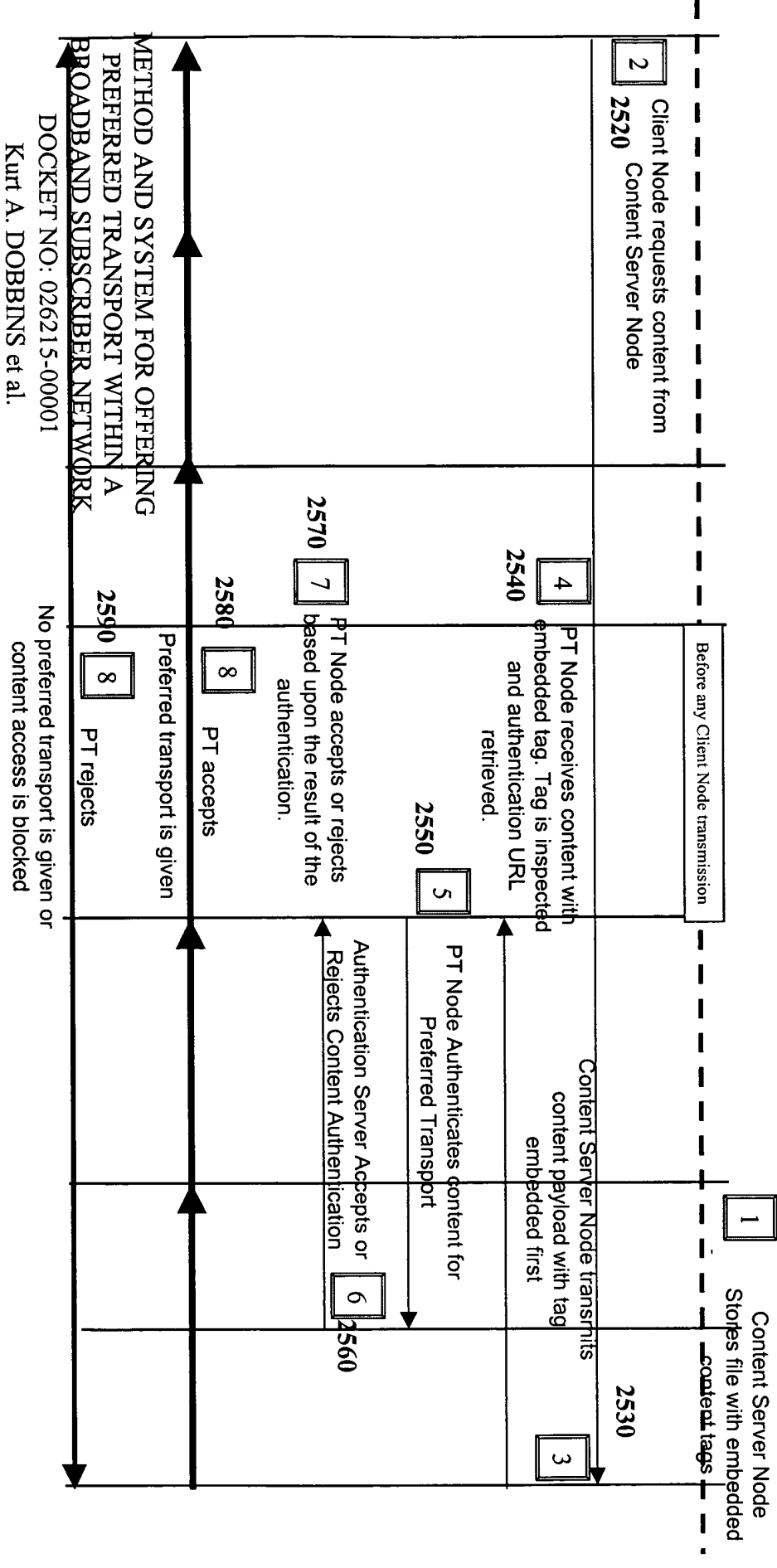


Figure 24a

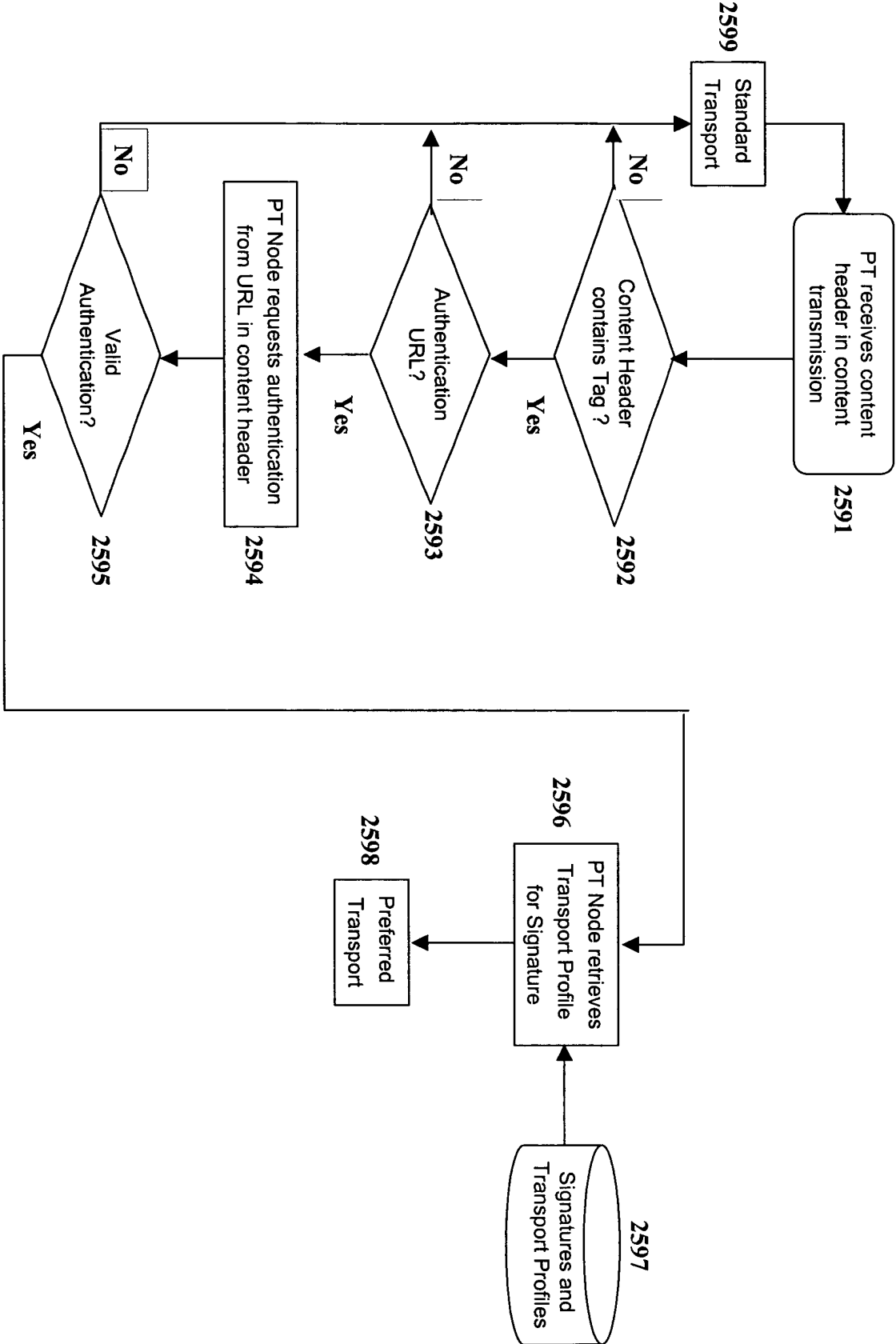


Figure 25

- **Leverage OLD Tree for Self-naming Tags**
 - Gives digital representation to textual names
 - Allows arbitrary hierarchy
 - Extensible with new content types
 - Packet encoding will use ASN.1 BER
- **Name Space Maintained by host**
 - Publish as Informational IETF MIB

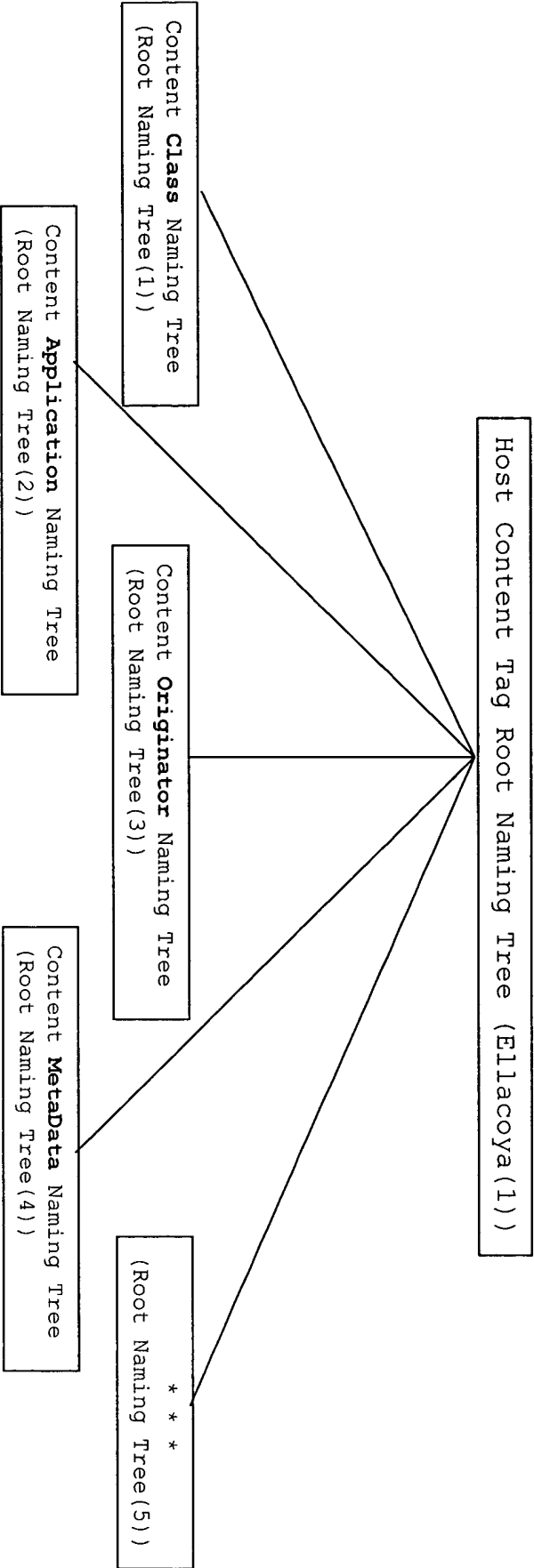


Figure 26

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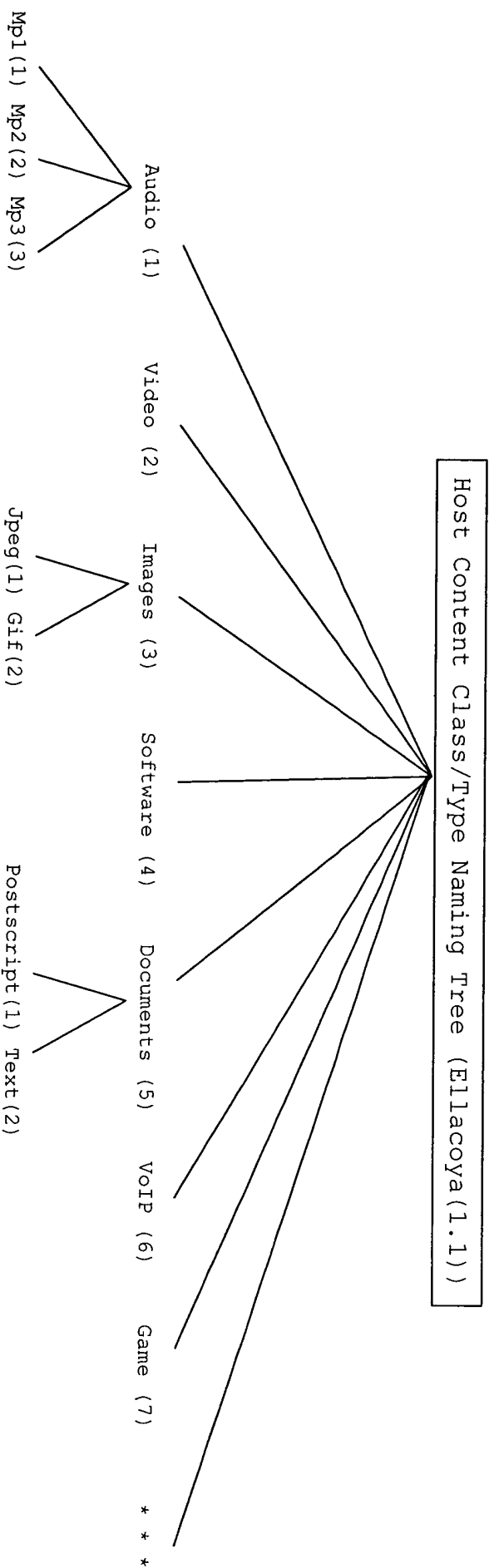


Figure 27

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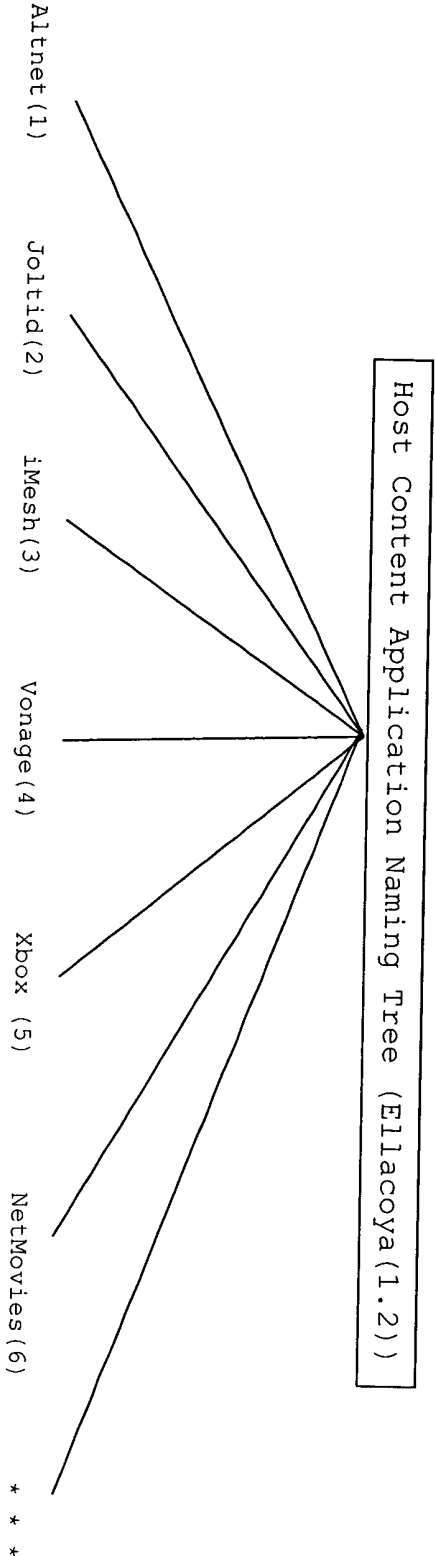


Figure 28

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